

Alexander Kamburudis

Senior Frontend Engineer · Vue 3 / React / TypeScript · AI-Assisted Development

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SUMMARY

Frontend engineer with 9 years of professional experience building data-heavy, client-facing web applications in Vue 3 / Quasar and React / Next.js with TypeScript. Frontend lead and co-founder at a Bulgarian software company building agentic building automation — AI agents that sit above a site's systems, read live telemetry and act on it — where I own a production SaaS suite end to end and lead its product and design direction. Daily hands-on user of AI coding agents (Claude Code, Cursor) for real production work, and a builder of the systems behind them — LLM-backed extraction pipelines and agent workflows with human review gates. I write real tests, including making non-deterministic AI paths deterministically testable, and I am comfortable reviewing model-generated code for correctness, maintainability, accessibility and performance.

EXPERIENCE

Frontend Lead & Co-founder — Blueberry Software Jun 2021 – Present

- Co-founded the company and lead its frontend engineering. Blueberry builds and owns Volts — agentic building automation for real estate and industry, where AI agents run daily operations on top of a site's existing meters, sensors and control systems — and delivers white-label software for clients.
- Own frontend architecture end to end across Vue 3 / Quasar / TypeScript and Next.js / React; set the standards for testing, observability and CI.
- Lead product direction and the design function alongside the CTO — brief and review design work, own scoping and information-architecture decisions — while staying hands-on in the code.
- Build the AI and automation systems the company runs internally: LLM extraction pipelines, agent workflows and the data infrastructure behind them.

Self-Employed Developer — Freelance Sep 2020 – Oct 2022

- Built web applications and websites for clients: Vue and React frontends, admin dashboards, e-commerce storefronts, and custom WordPress themes and plugins.
- Worked directly with clients from brief to delivery on fixed scopes, remote and async.

Frontend Developer — Hlebarov.com Sep 2018 – Nov 2020

- Built and maintained client websites on WordPress — custom themes, plugins and WooCommerce storefronts — alongside the front-end work around them: HTML, CSS, JavaScript, responsive layouts and integration with backend APIs. Owned sites from build through ongoing maintenance.

Web Developer — RSO Hosting May 2017 – Aug 2018

- Built and maintained client websites, with hosting configuration and deployment support. First professional development role.

SELECTED PROJECTS

Volts — Agentic Building Automation Platform — principal frontend author · 2021–present

Commercial SaaS that runs energy and operations for buildings and industrial sites, with an agent layer above the systems already installed on site. Vue 3.5, Quasar 2, TypeScript and Pinia in a Turborepo monorepo with shared internal packages for UI, composables, types and translations. Real-time dashboards stream live device telemetry over MQTT into configurable widget grids, charting and node-graph editors for device logic; a streaming agent chat with tool calls, built on the Claude Agent SDK, sits on top of it. iOS and Android builds from the same codebase via Capacitor. Vitest, Vue Test Utils, Playwright, Sentry, Docker, GitLab CI.

Multi-Source Data Enrichment & Entity Resolution Platform — built end to end, near-solo

Turns a raw CSV of target companies into an enriched, scored dataset with verified contacts and buying signals. A CLI pipeline sweeps ~27 public sources on a schedule and uses Claude via the Anthropic SDK to extract structured data from unstructured pages, then runs probabilistic entity resolution to merge records for the same organisation. A full Nuxt application on top: dataset workflows, signal scanning, shareable asset library, and a notifications centre fed by job events and an IMAP watcher that parses inbound replies. Docker Compose app + cron scheduler. ~250 Vitest test files.

Campaign Studio — AI Marketing Agent — built solo

Next.js app that drafts brand-consistent social posts and runs an autonomous scheduler proposing them for a human to approve. Drafts are grounded in a synced knowledge base rather than free-generated, and the system learns style rules from the edits a reviewer makes. React, TypeScript, Tailwind; SQLite via Drizzle with lazy idempotent migrations; multi-stage Docker with container cron. CI gates every image on typecheck, lint and a **490-test Vitest suite that runs fully in-memory with no network calls** — which is what makes the AI paths testable at all.

G360 — Geospatial Infrastructure Monitoring — frontend owner

Vue 3 and Quasar application for monitoring distributed physical infrastructure: an interactive Mapbox GL map of measurement points layered over per-point time-series data, configurable drag-and-drop dashboards, an analyzer view, plus finance and operator modules. ApexCharts and Chart.js, Auth0, fully internationalised. The hard parts were keeping map rendering smooth with large point sets and making dashboards composable enough for operators to build their own views.

Biometric Access Control UI — Vein Recognition — sole author

Admin frontend for a vein-recognition access control system: scanner devices and device groups, users and user groups, area-based access rules, calibration, first-run onboarding wizard and usage analytics. Biometric enrollment streams live video off the physical scanner into the browser over a WebRTC peer connection, so an administrator captures and verifies a scan in-flow rather than juggling separate vendor software. Vue 3, Quasar, i18n, role-gated navigation.

Novasoil — Soil Assessment & Risk Calculator — near-sole author

Vue 3 / Quasar / TypeScript app guiding an agronomist through a multi-step soil assessment to a classification and risk report. I built the stepper framework (navigation, progress, per-step validation, resumable state), an in-house component library on top of Quasar, and the soil classification logic. Includes an in-browser linear-programming solver computing optimal input mixes against constraints client-side, encrypted local storage for in-progress work, and a report archive.

AI-ASSISTED ENGINEERING & TESTING

- Uses Claude Code and Cursor daily to plan, implement and refactor production features, and reviews the resulting code before it ships.
- Builds LLM-backed systems in production: structured extraction from unstructured sources, knowledge-base grounding, feedback loops that learn from human edits, and autonomous workflows gated on human approval.
- Makes non-deterministic AI paths testable — in-memory fixtures, no network in CI — so agent behaviour can be regression-tested rather than spot-checked.
- Practical judgement on where frontier coding models fail: silent edge-case omissions, accessibility regressions, unnecessary abstraction, and confidently incorrect output.

SKILLS

Frontend: Vue 3, Quasar, React, Next.js, Nuxt, TypeScript, JavaScript, Pinia, Vue Router, Tailwind CSS, HTML, CSS/SCSS, i18n, accessibility, responsive UI

Data & real-time: MQTT, WebSockets, SSE, Mapbox GL, WebRTC, Chart.js, ApexCharts, REST APIs

Backend & infra: Node.js, PostgreSQL, Prisma, Drizzle, SQLite, Redis, Docker, GitLab CI, Capacitor, WordPress / WooCommerce

AI: Anthropic API & Claude Agent SDK, MCP, Claude Code, Cursor, LLM extraction, RAG / knowledge-base grounding, prompt and tool design, model output evaluation

Testing: Vitest, Vue Test Utils, React Testing Library, Playwright, Sentry

Product & design: product direction, scoping and information architecture, design review, Figma

LANGUAGES

Bulgarian (native) · English (fluent, professional working proficiency)